

<u>HOME</u> <u>PARTNERS</u> <u>CONTACT</u>

<u>Computer Science and Engineering > Data Structures – 1 > Experiments</u>

<u>Aim</u>	Unsorted Arrays vs Binary Search
Overview	Olisofted Arrays vs billary Search
<u>Recap</u>	Choose ✓ Beginner ✓ Intermediate ✓ Advanced
<u>Pretest</u>	What is the prerequisite to perform Binary Search?
<u>Linear Search</u> ~	 a: The values in the array have a maximum bound value they can take Explanation
Binary Search ~	b: Array must be sorted either in ascending or descending order
<u>Aim</u> <u>Concept</u>	Explanation O c: Array must be broken into sub-arrays O d: None of the above
<u>Algorithm</u>	O d. None of the above
<u>Demo</u> <u>Practice</u>	2. Binary Search is an example of algorithm.O a: Greedy
<u>Exercise</u>	O b: Dynamic Programming
<u>Quiz</u>	O c: Backtracking
<u>Analysis</u> ~	d: None of the above
<u>Posttest</u>	3. Let us assume an array [1,23,145,178,1203]. How many iterations are needed to find 23? [Assuming we are considering floor of values for floating point values, and index starting from
Further Readings/References	
Feedback	1] o a: 3 Explanation
	O b: 4
	O C: 2
	O d: 5
	4. Let us assume an array [11, 33, 145, 1294, 1356, 1450, 3300, 4500, 6000, 8000, 9000]. Let us search for 4500 using binary search. What would be the mid values at the second and third iteration respectively? [Assuming we are considering floor of values for floating point values, and index starting from 1] O a: 1450 and 6000
	● b: 6000 and 3300 Explanation
	O c: 6000 and 4500
	O d: 1450 and 4500
	5. What is the space complexity of binary search implemented using recursion? • a: O(1)
	O b: O(N)
	O c: O(N log N)

1 of 2 24/07/24, 10:03

⊙ d: O(log N) Explanation

2 of 2 24/07/24, 10:03